
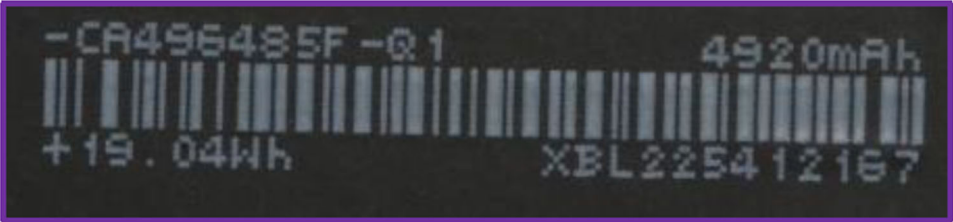


EXHIBIT K

Comparison of U.S. Patent No. 11,769,910 to the CA496485F-Q1 Battery Cell

Claim 20	CA496485F-Q1 Battery Cell
An electrolyte, comprising	<p data-bbox="512 310 1873 378">The CA496485F-Q1 battery has an electrolyte which was extracted using a centrifuge and diluted for GC-MS analysis.</p> <div data-bbox="550 438 1524 1159"></div> <div data-bbox="520 1179 1467 1399"></div>

a dinitrile compound, a trinitrile compound, and propyl propionate	<div>The CA496485F-Q1 battery cell's electrolyte has a dinitrile compound, a trinitrile compound, and propyl propionate.</div> <table><tr><td>Propyl Propionate (PP) (wt %)</td><td>Dinitrile (wt %)</td><td>Trinitrile (wt %)</td><td>1,3-Propane sultone (PS) (wt%)</td><td>2-Fluoroethylene carbonate (FEC) (wt%)</td></tr><tr><td>47.3</td><td>2.03</td><td>1.57</td><td>2.58</td><td>2.00</td></tr></table>	Propyl Propionate (PP) (wt %)	Dinitrile (wt %)	Trinitrile (wt %)	1,3-Propane sultone (PS) (wt%)	2-Fluoroethylene carbonate (FEC) (wt%)	47.3	2.03	1.57	2.58	2.00
Propyl Propionate (PP) (wt %)	Dinitrile (wt %)	Trinitrile (wt %)	1,3-Propane sultone (PS) (wt%)	2-Fluoroethylene carbonate (FEC) (wt%)							
47.3	2.03	1.57	2.58	2.00							
wherein, based on a total weight of the electrolyte, a weight percentage of the dinitrile compound is X, a weight percentage of the trinitrile compound is Y and a weight percentage of the propyl propionate is Z;	<div>The CA496485F-Q1 battery cell's electrolyte has, based on a total weight of the electrolyte, a weight percentage of the dinitrile compound is X, a weight percentage of the trinitrile compound is Y and a weight percentage of the propyl propionate is Z.</div> <table><tr><td>Propyl Propionate (PP) (wt %)</td><td>Dinitrile (wt %)</td><td>Trinitrile (wt %)</td><td>1,3-Propane sultone (PS) (wt%)</td><td>2-Fluoroethylene carbonate (FEC) (wt%)</td></tr><tr><td>47.3</td><td>2.03</td><td>1.57</td><td>2.58</td><td>2.00</td></tr></table>	Propyl Propionate (PP) (wt %)	Dinitrile (wt %)	Trinitrile (wt %)	1,3-Propane sultone (PS) (wt%)	2-Fluoroethylene carbonate (FEC) (wt%)	47.3	2.03	1.57	2.58	2.00
Propyl Propionate (PP) (wt %)	Dinitrile (wt %)	Trinitrile (wt %)	1,3-Propane sultone (PS) (wt%)	2-Fluoroethylene carbonate (FEC) (wt%)							
47.3	2.03	1.57	2.58	2.00							
wherein, about 2.2 wt %≤(X+Y)≤about 8 wt %, about 0.1≤(X/Y)≤about 6, 5 wt %≤Z≤20 wt % or 30 wt %≤Z≤50 wt %, and	<div>The additives in the CA496485F-Q1 battery cell's electrolyte meet the requirements of:</div> <div>about 2.2 wt %≤(X+Y)≤about 8 wt %, about 0.1≤(X/Y)≤about 6, 5 wt %≤Z≤20 wt % or 30 wt %≤Z≤50 wt %, and about 0.01≤(Y/Z)≤about 0.3;</div>										

about 0.01≤(Y/Z)≤ about 0.3;	<table><tr><td>Limitation</td><td>X+Y (wt%)</td><td>X/Y</td><td>Z (wt%)</td><td>Y/Z</td><td>Dinitrile ID</td><td>Trinitrile ID</td><td>PS and FEC present</td><td>PS (wt%)</td></tr><tr><td>Claimed Range</td><td>2.2 – 8</td><td>0.1 – 6</td><td>5 – 20 or 30 – 50</td><td>0.01 – 0.3</td><td></td><td></td><td></td><td>0.1 – 3</td></tr><tr><td></td><td>4</td><td>1.3</td><td>47</td><td>0.03</td><td>BN + ADN</td><td>HTCN</td><td>PS and FEC</td><td>2.6</td></tr></table>	Limitation	X+Y (wt%)	X/Y	Z (wt%)	Y/Z	Dinitrile ID	Trinitrile ID	PS and FEC present	PS (wt%)	Claimed Range	2.2 – 8	0.1 – 6	5 – 20 or 30 – 50	0.01 – 0.3				0.1 – 3		4	1.3	47	0.03	BN + ADN	HTCN	PS and FEC	2.6
Limitation	X+Y (wt%)	X/Y	Z (wt%)	Y/Z	Dinitrile ID	Trinitrile ID	PS and FEC present	PS (wt%)																				
Claimed Range	2.2 – 8	0.1 – 6	5 – 20 or 30 – 50	0.01 – 0.3				0.1 – 3																				
	4	1.3	47	0.03	BN + ADN	HTCN	PS and FEC	2.6																				
wherein the dinitrile compound comprises at least one selected from the group consisting of butanedinitrile, adiponitrile, ethylene glycol bis(2-cyanoethyl) ether, and 1,4-dicyano-2-butene; and the trinitrile compound is one or more compounds selected from the group consisting of 1,3,6-hexanetricarbonitrile , 1,2,6-hexanetricarbonitrile and 1,2,3-tris(2-cyanoethoxy)propane	<p>The dinitrile compound in the CA496485F-Q1 battery cell’s electrolyte comprises at least one selected from the group consisting of butanedinitrile, adiponitrile, ethylene glycol bis(2-cyanoethyl) ether, and 1,4-dicyano-2-butene; and the trinitrile compound is one or more compounds selected from the group consisting of 1,3,6-hexanetricarbonitrile , 1,2,6-hexanetricarbonitrile and 1,2,3-tris(2-cyanoethoxy)propane.</p> <table><tr><td>Limitation</td><td>X+Y (wt%)</td><td>X/Y</td><td>Z (wt%)</td><td>Y/Z</td><td>Dinitrile ID</td><td>Trinitrile ID</td><td>PS and FEC present</td><td>PS (wt%)</td></tr><tr><td>Claimed Range</td><td>2.2 – 8</td><td>0.1 – 6</td><td>5 – 20 or 30 – 50</td><td>0.01 – 0.3</td><td></td><td></td><td></td><td>0.1 – 3</td></tr><tr><td></td><td>4</td><td>1.3</td><td>47</td><td>0.03</td><td>BN + ADN</td><td>HTCN</td><td>PS and FEC</td><td>2.6</td></tr></table>	Limitation	X+Y (wt%)	X/Y	Z (wt%)	Y/Z	Dinitrile ID	Trinitrile ID	PS and FEC present	PS (wt%)	Claimed Range	2.2 – 8	0.1 – 6	5 – 20 or 30 – 50	0.01 – 0.3				0.1 – 3		4	1.3	47	0.03	BN + ADN	HTCN	PS and FEC	2.6
Limitation	X+Y (wt%)	X/Y	Z (wt%)	Y/Z	Dinitrile ID	Trinitrile ID	PS and FEC present	PS (wt%)																				
Claimed Range	2.2 – 8	0.1 – 6	5 – 20 or 30 – 50	0.01 – 0.3				0.1 – 3																				
	4	1.3	47	0.03	BN + ADN	HTCN	PS and FEC	2.6																				
wherein the electrolyte further comprises 1,3-propanesultone and	The CA496485F-Q1 battery cell’s electrolyte further comprises 1,3-propanesultone and fluoroethylene carbonate;																											

fluoroethylene carbonate;	Limitation	X+Y (wt%)	X/Y	Z (wt%)	Y/Z	Dinitrile ID	Trinitrile ID	PS and FEC present	PS (wt%)
	Claimed Range	2.2 – 8	0.1 – 6	5 – 20 or 30 – 50	0.01 – 0.3				0.1 – 3
		4	1.3	47	0.03	BN + ADN	HTCN	PS and FEC	2.6
wherein, based on the total weight of the electrolyte, a weight percentage of the 1,3-propanesultone is not less than 0.1 wt %, and not greater than 3 wt %.	Based on the total weight of the electrolyte, the 1,3-propane sultone in the CA496485F-Q1 battery cell's electrolyte meets the requirement of: a weight percentage of the 1,3-propanesultone is not less than 0.1 wt %, and not greater than 3 wt %.								
	Limitation	X+Y (wt%)	X/Y	Z (wt%)	Y/Z	Dinitrile ID	Trinitrile ID	PS and FEC present	PS (wt%)
	Claimed Range	2.2 – 8	0.1 – 6	5 – 20 or 30 – 50	0.01 – 0.3				0.1 – 3
		4	1.3	47	0.03	BN + ADN	HTCN	PS and FEC	2.6